

IN THE CLAIMS

1. (Currently Amended) A joint construction of cobalt-based alloy in which a cobalt-based alloy material portion is diffusion bonded to a base metal portion by interposing an insert metal between said cobalt-based alloy portion, in which granular or massive eutectic carbide disperses in a matrix of metal microstructure, and said base metal portion, wherein a layer which has an element of said insert metal is formed over said base metal portion, and said cobalt-based alloy portion is located over ~~said insert metal~~ layer.

2. (Original) The joint construction of cobalt-based alloy according to claim 1, wherein said base metal portion and said cobalt-based alloy portion contain an element diffused from said insert metal.

3. (Previously Presented) The joint construction of cobalt-based alloy according to claim 1, wherein said insert metal layer contains an element diffused from said base metal portion and cobalt diffused from said cobalt-based alloy portion.

4. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 1, wherein the grain size of said eutectic carbide is not larger than 30 μm .

5. (Currently Amended) The joint construction of cobalt-based alloy material according to claim 1, wherein said base metal portion is ~~formed of any~~ a material selected from the group consisting of carbon steel, low alloy steel, and stainless steel.

6. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 1, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

7-15. (Canceled)

16. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 3, wherein the grain size of said eutectic carbide is not larger than 30 μm .

17. (Currently Amended) The joint construction of cobalt-based alloy material according to claim 3, wherein said base metal portion is ~~formed of any~~ a material selected from the group consisting of carbon steel, low alloy steel, and stainless steel.

18. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 17, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

19. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 17, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

20. (Currently Amended) The joint construction of cobalt-based alloy material according to claim 4, wherein said base metal portion is ~~formed of any~~ of carbon steel, low alloy steel, and stainless steel.

21. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 4, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

22. (Previously Presented) The joint construction of cobalt-based alloy according to claim 2, wherein said insert metal layer contains an element diffused from said base metal portion and cobalt diffused from said cobalt-based alloy portion.

23. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 2, wherein the grain size of said eutectic carbide is not larger than 30 μm .

24. (Currently Amended) The joint construction of cobalt-based alloy material according to claim 2, wherein said base metal portion is ~~formed of any of~~ carbon steel, low alloy steel, and stainless steel.

25. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 2, wherein said

cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

26. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 22, wherein the grain size of said eutectic carbide is not larger than 30 μm .

27. (Currently Amended) The joint construction of cobalt-based alloy material according to claim 22, wherein said base metal portion is formed of any of carbon steel, low alloy steel, and stainless steel.

28. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 22, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

29. (Previously Presented) The joint construction of cobalt-based alloy material according to claim 27, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or

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less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni,
and 0 to 6% Mo by weight, the balance being Co and unavoidable
impurities.

30-40. (Cancelled)